BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:-Improvements to Roads and RCC Drains at Babanagara Main and Cross Roads, Dwarakanagara and Surrounding area in Ward No.05

								Estimation Cost.Rs	**40000000.00**
Sl No	**Description of work**		**Mesurement**				**Qty**	**Rate**	**Amount**
		Unit	**No.**	**L**	**B**	**D**			
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27,								
	Culvert								
	Babanagara								
	2nd main	Cum	1.00	5.70	1.80	0.70	7.182		
	4th main	Cum	1.00	5.70	1.50	0.70	5.985		
	5th main	Cum	1.00	5.80	1.50	0.70	6.09		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**441.86**							
	Total						**19.26**	**441.86**	**8508.90**
2	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	Dwaraka Nagara								
	1st main Road	Cum	2.00	371.50	1.05	0.90	702.14		
	1st Main 1st Cross Road	Cum	1.00	115.00	1.05	0.90	108.68		
	1st Main 2nd Cross Road	Cum	2.00	135.50	1.05	0.90	256.10		
	2nd Main Road	Cum	2.00	147.00	1.05	0.90	277.83		
	Babanagara								
	2nd main	Cum	2.00	168.00	1.00	0.90	302.40		
	4th main	Cum	2.00	170.50	1.00	0.90	306.90		
	5th main	Cum	2.00	167.00	1.00	0.90	300.60		
	6th main	Cum	2.00	167.00	1.00	0.90	300.60		
	1st cross	Cum	2.00	240.00	1.00	0.90	432.00		
	Brundavan College								
	4th main	Cum	1.00	263.00	1.05	0.90	248.54		
	New Culvert								
	Dwaraka Nagara								
	1st Main 2nd Cross Road	Cum	1.00	5.00	2.05	1.10	11.28		
		Cum	1.00	5.50	2.05	1.10	12.40		
		Cum	1.00	5.50	2.05	1.10	12.40		
		Cum	1.00	5.10	2.05	1.10	11.50		
		Cum	1.00	5.20	2.05	1.10	11.73		
	Babanagara								
	2nd main	Cum	2.00	5.70	1.90	0.90	19.49		
	4th main	Cum	1.00	5.70	1.70	0.90	8.72		
	5th main	Cum	2.00	5.80	1.70	0.90	17.75		
	Over Burden								
	Dwaraka Nagara								
	1St Main Road	Cum	1.00	371.50	0.55	0.40	81.73		
	1st Main 1st Cross Road	Cum	1.00	115.00	0.55	0.40	25.30		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	1st Main 2 Cross Road	Cum	1.00	135.50	0.55	0.35	26.08		
	2 nd main Road	Cum	1.00	147.00	0.55	0.35	28.30		
	Babanagara								
	2nd main	Cum	1.00	168.00	0.50	0.50	42.00		
	4th main	Cum	1.00	170.50	0.50	0.50	42.63		
	5th main	Cum	1.00	167.00	0.50	0.50	41.75		
	6th main	Cum	1.00	167.00	0.50	0.50	41.75		
	1st cross	Cum	1.00	240.00	0.50	0.50	60.00		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**207.60**							
	Total						**3730.58**	**207.60**	**774467.53**
3	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Dwaraka Nagara								
	1st main Road	Cum	2.00	371.50	1.05	0.15	117.02		
	1st Main 1st Cross Road	Cum	1.00	115.00	1.05	0.15	18.11		
	1st Main 2nd Cross Road	Cum	2.00	135.50	1.05	0.15	42.68		
	2nd Main Road	Cum	2.00	147.00	1.05	0.15	46.31		
	Brundavan College								
	4th main	Cum	1.00	263.00	1.05	0.15	41.42		
	Babanagara								
	2nd main	Cum	2.00	168.00	1.00	0.15	50.40		
	4th main	Cum	2.00	170.50	1.00	0.15	51.15		
	5th main	Cum	2.00	167.00	1.00	0.15	50.10		
	6th main	Cum	2.00	167.00	1.00	0.15	50.10		
	1st cross	Cum	2.00	240.00	1.00	0.15	72.00		
	New Culvert								
	Dwaraka Nagara								
	1st Main 2nd Cross Road	Cum	1.00	5.00	2.00	0.15	1.50		
		Cum	1.00	5.50	2.00	0.15	1.65		
		Cum	1.00	5.50	2.00	0.15	1.65		
		Cum	1.00	5.10	2.00	0.15	1.53		
		Cum	1.00	5.20	2.00	0.15	1.56		
	Babanagara								
	2nd main	Cum	2.00	5.70	1.90	0.15	3.25		
	4th main	Cum	1.00	5.70	1.70	0.15	1.45		
	5th main	Cum	2.00	5.80	1.70	0.15	2.96		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						**554.85**	**5421.90**	**3008316.82**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
4	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Dwaraka Nagara								
	1st main Road								
	Bottom Slab	Cum	2.00	371.50	0.90	0.15	100.31		
	Side Walls	Cum	4.00	371.50	0.15	0.60	133.74		
	1st Main 1st Cross Road								
	Bottom Slab	Cum	1.00	115.00	0.90	0.15	15.53		
	Side Walls	Cum	2.00	115.00	0.15	0.60	20.70		
	1st Main 2nd Cross Road								
	Bottom Slab	Cum	2.00	135.50	0.90	0.15	36.59		
	Side Walls	Cum	4.00	135.50	0.15	0.60	48.78		
	2nd Main Road								
	Bottom Slab	Cum	2.00	147.00	0.90	0.15	39.69		
	Side Walls	Cum	4.00	147.00	0.15	0.60	52.92		
	Brundavan College								
	4 th main								
	Bottom Slab	Cum	1.00	263.00	0.90	0.15	35.51		
	Side Walls	Cum	2.00	263.00	0.15	0.60	47.34		
	Babanagara								
	2nd main								
	bottom slab	Cum	2.00	168.00	0.90	0.15	45.36		
	side wall	Cum	4.00	168.00	0.15	0.60	60.48		
	4th main								
	bottom slab	Cum	2.00	170.50	0.90	0.15	46.04		
	side wall	Cum	4.00	170.50	0.15	0.60	61.38		
	5th main								
	bottom slab	Cum	2.00	167.00	0.90	0.15	45.09		
	side wall	Cum	4.00	167.00	0.15	0.60	60.12		
	6th main								
	bottom slab	Cum	2.00	167.00	0.90	0.15	45.09		
	side wall	Cum	4.00	167.00	0.15	0.60	60.12		
	1st cross								
	bottom slab	Cum	2.00	240.00	0.90	0.15	64.80		
	side wall	Cum	4.00	240.00	0.15	0.60	86.40		
						Sub Total	**1105.97**		
	New Culvert								
	Dwaraka Nagara								
	1st Main 2nd Cross Road								
	Bottom Slab	Cum	1.00	5.00	1.80	0.20	1.80		
	Side Walls	Cum	2.00	5.00	0.20	0.75	1.50		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Bottom Slab	Cum	1.00	5.50	1.80	0.20	1.98		
	Side Walls	Cum	2.00	5.50	0.20	0.75	1.65		
	Bottom Slab	Cum	1.00	5.50	1.80	0.20	1.98		
	Side Walls	Cum	2.00	5.50	0.20	0.75	1.65		
	Bottom Slab	Cum	1.00	5.10	1.80	0.20	1.84		
	Side Walls	Cum	2.00	5.10	0.20	0.75	1.53		
	Bottom Slab	Cum	1.00	5.20	1.80	0.20	1.87		
	Side Walls	Cum	2.00	5.20	0.20	0.75	1.56		
	Babanagara								
	2nd main								
	bottom slab	Cum	2.00	5.70	1.80	0.20	4.10		
	side wall	Cum	4.00	5.70	0.20	0.60	2.74		
	4th main								
	bottom slab	Cum	1.00	5.70	1.50	0.20	1.71		
	side wall	Cum	2.00	5.70	0.20	0.60	1.37		
	5th main								
	bottom slab	Cum	2.00	5.80	1.50	0.20	3.48		
	side wall	Cum	4.00	5.80	0.20	0.60	2.78		
						Sub Total	**33.54**		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						**1139.51**	**7070.20**	**8056528.25**
5	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item No.4				1105.97		
		kg	Steel assumed 70Kg/Cum of Concrete				77417.55		
		tonne					77.42		
	For Culvert	Cum	From item No 04				33.54		
		kg	Steel assumed 90Kg/Cum of Concrete				3018.60		
		tonne					3.02		
	Basic rate	68233.0							
	Area weightage 6%	4093.98							
	Sub Total	72327.0							
	Total						**80.44**	**72326.98**	**5817703.81**
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	New Drain								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Dwaraka Nagara								
	1st main Road	Sqm	2.00	371.50	0.90		668.70		
	1st Main 1st Cross Road	Sqm	1.00	115.00	0.90		103.50		
	1st Main 2nd Cross Road	Sqm	2.00	135.50	0.90		243.90		
	2nd Main Road	Sqm	2.00	147.00	0.90		264.60		
	Brundavan College								
	4th main	Sqm	1.00	263.00	0.90		236.70		
	Babanagara								
	2nd main	Sqm	2.00	168.00	0.90		302.40		
	4th main	Sqm	2.00	170.50	0.90		306.90		
	5th main	Sqm	2.00	167.00	0.90		300.60		
	6th main	Sqm	2.00	167.00	0.90		300.60		
	1st cross	Sqm	2.00	240.00	0.90		432.00		
	Data Rate	**2337.0**							
	Total						**3159.90**	**2337.00**	**7384686.30**
7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha								
	New Culvert								
	Dwaraka Nagara								
	1st Main 2nd Cross Road	Sqm	1.00	5.00	1.80		9.00		
		Sqm	1.00	5.50	1.80		9.90		
		Sqm	1.00	5.50	1.80		9.90		
		Sqm	1.00	5.10	1.80		9.18		
		Sqm	1.00	5.20	1.80		9.36		
	Babanagara								
	2nd main	Sqm	2.00	5.70	1.80		20.52		
	4th main	Sqm	1.00	5.70	1.50		8.55		
	5th main	Sqm	2.00	5.80	1.50		17.40		
	Data rate	**5418.0**							
	Total						**93.81**	**5418.00**	**508262.58**
8	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Road cut portion								
	Dwaraka Nagara								
	1St main Road	Cum	1.00	185.50	1.50	0.23	64.00		
	2nd Main Road	Cum	1.00	150.00	1.50	0.23	51.75		
	Babanagara								
	2nd main	Cum	1.00	60.00	1.10	0.23	15.18		
	5th main	Cum	1.00	65.00	1.10	0.23	16.45		
	1st cross	Cum	1.00	90.00	1.10	0.23	22.77		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.80							
	Sub Total	**56.26**							

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Total						**170.14**	**56.26**	**9572.22**
9	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Sqm	1	140.00	5.40		756.00		
	Babanagara								
	4th main	Sqm	1.00	88.00	5.20		457.60		
	5th main	Sqm	1.00	48.00	5.00		240.00		
	6th main	Sqm	1.00	89.00	5.80		516.20		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	Sqm	1	115.00	4.8		552.00		
	1st Main 2 Cross Road	Sqm	1	135.50	5.50		745.25		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	**41.34**							
	Total						**3267.05**	**41.34**	**135059.85**
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Sqm	1.00	140.00	5.40		756.00		
	Babanagara								
	4th main	Sqm	1.00	88.00	5.20		457.60		
	5th main	Sqm	1.00	48.00	5.00		240.00		
	6th main	Sqm	1.00	89.00	5.80		516.20		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	Sqm	1.00	115.00	4.80		552.00		
	1st Main 2 Cross Road	Sqm	1.00	135.50	5.50		745.25		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	6.36							
	Total						**3267.05**	**6.36**	**20778.44**
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Cum	1.00	140.00	5.40	0.15	113.40		
	Babanagara								
	4th main	Cum	1.00	88.00	5.20	0.15	68.64		
	5th main	Cum	1.00	48.00	5.00	0.15	36.00		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	6th main	Cum	1.00	89.00	5.80	0.15	77.43		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	Cum	1.00	115.00	4.80	0.15	82.80		
	1st Main 2 Cross Road	Cum	1.00	135.50	5.50	0.15	111.79		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						**490.06**	**1994.92**	**977625.51**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road cut portion								
	Dwaraka Nagara								
	1St main Road	Cum	1.00	185.50	1.50	0.23	64.00		
	2nd Main Road	Cum	1.00	150.00	1.50	0.23	51.75		
	Babanagara								
	2nd main	Cum	1.00	60.00	1.10	0.23	15.18		
	5th main	Cum	1.00	65.00	1.10	0.23	16.45		
	1st cross	Cum	1.00	90.00	1.10	0.23	22.77		
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Cum	1.00	140.00	5.40	0.23	173.88		
	Babanagara								
	4th main	Cum	1.00	88.00	5.20	0.23	105.25		
	5th main	Cum	1.00	48.00	5.00	0.23	55.20		
	6th main	Cum	1.00	89.00	5.80	0.23	118.73		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	Cum	1.00	115.00	4.80	0.23	126.96		
	1st Main 2 Cross Road	Cum	1.00	135.50	5.50	0.23	171.41		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**921.56**	**2001.28**	**1844307.60**
13	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
	Road cut portion								
	Dwaraka Nagara								
	1St main Road	Sqm	1.0	185.5	1.5		278.25		
	2nd Main Road	Sqm	1.00	150.00	1.50		225.00		
	Babanagara								
	2nd main	Sqm	1.00	60.00	1.10		66.00		
	5th main	Sqm	1.00	65.00	1.10		71.50		
	1st cross	Sqm	1.00	90.00	1.10		99.00		
						Sub Total	**739.75**		
	Road Scarify Portion								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Dwaraka Nagara								
	1 St main road	Sqm	1.00	140.00	5.40		756.00		
	Babanagara								
	4th main	Sqm	1.00	88.00	5.20		457.60		
	5th main	Sqm	1.00	48.00	5.00		240.00		
	6th main	Sqm	1.00	89.00	5.80		516.20		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	sqm	1.00	115.00	4.80		552.00		
	1st Main 2 Cross Road	sqm	1.00	135.50	5.50		745.25		
						Sub Total	**1297.25**		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	**22.26**							
	Total						**4006.80**	**22.26**	**89191.37**
14	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Road cut portion	Sqm	From Item No. 13				739.75		
	for old Road Provide 15% Profile Correction	Sqm	From Item No. 15=(5746.1X15%)=861.92				861.92		
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Sqm	1.00	140.00	5.40		756.00		
	Babanagara								
	4th main	Sqm	1.00	88.00	5.20		457.60		
	5th main	Sqm	1.00	48.00	5.00		240.00		
	6th main	Sqm	1.00	89.00	5.80		516.20		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	sqm	1.00	115.00	4.80		552.00		
	1st Main 2 Cross Road	sqm	1.00	135.50	5.50		745.25		
	Basic rate	27.00							
	Area weightage 6%	1.62							
	Sub Total	**28.62**							
	Total						**4868.72**	**28.62**	**139342.62**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	for cut Road Provide 15% Profile Correction		From Item No. 15=(5746.1X15%)=861.92				861.92		
		Cum		861.92		0.05	43.10		
	Road cut portion								
	Dwaraka Nagara								
	1St main Road	Cum	1.00	185.50	1.50	0.05	13.91		
	2nd Main Road	Cum	1.00	150.00	1.50	0.05	11.25		
	Babanagara								
	2nd main	Cum	1.00	60.00	1.10	0.05	3.30		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	5th main	Cum	1.00	65.00	1.10	0.05	3.58		
	1st cross	Cum	1.00	90.00	1.10	0.05	4.95		
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Cum	1.00	140.00	5.40	0.05	37.80		
	Babanagara								
	4th main	Cum	1.00	88.00	5.20	0.05	22.88		
	5th main	Cum	1.00	48.00	5.50	0.05	13.20		
	6th main	Cum	1.00	89.00	5.80	0.05	25.81		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	Cum	1.00	115.00	4.80	0.05	27.60		
	1st Main 2 Cross Road	Cum	1.00	135.50	5.50	0.05	37.26		
	Basic rate	6224.00							
	Area weightage 6%	373.44							
	Sub Total	**6597.44**							
	Total						**244.64**	**6597.44**	**1613969.68**
16	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	BC overlay								
	Dwaraka Nagara								
	1St Main Road	Sqm	1.00	231.50	5.40		1250.10		
	2 nd main Road	Sqm	1.00	147.00	5.70		837.90		
	Babanagara								
	2nd Main	Sqm	1.00	168.00	5.20		873.60		
	4th main	Sqm	1.00	82.50	5.20		429.00		
	5th main	Sqm	1.00	119.00	5.50		654.50		
	6th main	Sqm	1.00	78.00	5.50		429.00		
	1st cross	Sqm	1.00	240.00	5.30		1272.00		
						Sub Total	**5746.10**		
	Road Scarify Portion								
	Dwaraka Nagara								
	1 St main road	Sqm	1.00	140.00	5.40		756.00		
	4th main	Sqm	1.00	88.00	5.20		457.60		
	5th main	Sqm	1.00	48.00	5.00		240.00		
	6th main	Sqm	1.00	89.00	5.80		516.20		
							1969.80		
	New Road								
	Dwaraka Nagara								
	1st Main 1st Cross Road	Sqm	1.00	115.00	4.80		552.00		
	1st Main 2 Cross Road	Sqm	1.00	135.50	5.50		745.25		
						Sub Total	**1297.25**		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	**5.30**							
	Total						**9013.15**	**5.30**	**47769.70**
17	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
		Sqm	From Item No. 16				9013.15		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**9013.15**	**12.72**	**114647.27**
18	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12)								
	Dwaraka Nagara								
	1St Main Road	Cum	1.00	371.50	5.40	0.04	80.24		
	1st Main 1st Cross Road	Cum	1.00	115.00	4.80	0.04	22.08		
	1st Main 2 Cross Road	Cum	1.00	135.50	5.50	0.04	29.81		
	2 nd main Road	Cum	1.00	147.00	5.70	0.04	33.52		
	Babanagara								
	2nd Main	Cum	1.00	168.00	5.20	0.04	34.94		
	4th main	Cum	1.00	170.50	5.20	0.04	35.46		
	5th main	Cum	1.00	167.00	5.50	0.04	36.74		
	6th main	Cum	1.00	167.00	5.50	0.04	36.74		
	1st cross	Cum	1.00	240.00	5.30	0.04	50.88		
	Basic rate	7315.00							
	Area weightage 6%	438.90							
	Sub Total	**7753.90**							
	Total						**360.42**	**7753.90**	**2794645.13**
19	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Dwaraka Nagara								
	1St Main Road	Sqm	2.00	371.50	0.10		74.30		
	1st Main 1st Cross Road	Sqm	2.00	115.00	0.10		23.00		
	1st Main 2 Cross Road	Sqm	2.00	135.50	0.10		27.10		
	2 nd main Road	Sqm	2.00	147.00	0.10		29.40		
	Babanagara								
	2nd Main	Sqm	2.00	168.00	0.10		33.60		
	4th main	Sqm	2.00	170.50	0.10		34.10		
	5th main	Sqm	2.00	167.00	0.10		33.40		
	6th main	Sqm	2.00	167.00	0.10		33.40		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	1st cross	Sqm	2.00	240.00	0.10		48.00		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**336.30**	**454.74**	**152929.06**
								Grand Total	**33498312.62**
								DPR Charges (1% of Estimated cost)	**400000.00**
								Project management And Consultancy Charges(1% of Estimated cost)	**400000.00**
								GST Charges (12% of Estimated cost)	**4019797.51**
								Tender premium 5% of Estimated cost	**1674915.63**
								Miscellenious and rounding	**6974.23**
								Total Amount	**40000000.00**
									RUPEES FOUR CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP
22/05

Technical Sanction
Accorded For RS400 in Lakheely
Head of A/C P3297
CER NO : 07 Dt: 22.05.2020

TA CE (YNK)